

DERWENT-ACC-NO: 1992-265198

DERWENT-WEEK: 200015

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TITLE: Printing plate prodn. of photosensitive resin  
for flexographic printing - by removing solvent at  
arbitrary stage, from mixt. of hydrophobic polymers,  
hydrophilic polymers, ethylenic unsatd. cpd(s).,  
photopolymerisation initiator and solvent

PATENT-ASSIGNEE: TOYOBO KK[TOYM]

PRIORITY-DATA: 1990JP-0312551 (November 17, 1990)

PATENT-FAMILY:

| PUB-NO           | PUB-DATE          | LANGUAGE |
|------------------|-------------------|----------|
| PAGES MAIN-IPC   |                   |          |
| JP 04182649 A    | June 30, 1992     | N/A      |
| 011 G03F 007/027 |                   |          |
| JP 3013436 B2    | February 28, 2000 | N/A      |
| 009 G03F 007/004 |                   |          |

APPLICATION-DATA:

| PUB-NO            | APPL-DESCRIPTOR | APPL-NO        |
|-------------------|-----------------|----------------|
| APPL-DATE         |                 |                |
| JP 04182649A      | N/A             | 1990JP-0312551 |
| November 17, 1990 |                 |                |
| JP 3013436B2      | N/A             | 1990JP-0312551 |
| November 17, 1990 |                 |                |
| JP 3013436B2      | Previous Publ.  | JP 4182649     |
| N/A               |                 |                |

INT-CL (IPC): G03F007/004, G03F007/027

ABSTRACTED-PUB-NO: JP 04182649A

BASIC-ABSTRACT:

In prepn. of printing plate of a photosensitive resin having a  
photosensitive  
layer contg. (A) hydrophobic polymer(s) of glass transition temp. of  
up to 5

deg.C, (B) hydrophilic polymer(s), (C) ethylenically unsatd. cpd(s)., (D) solvent(s) having higher solubility for (B) than that for (A) and (E) photopolymerisation initiator(s), the ingredient (D) is removed to a concn. of 0.001-2 wt.% at an arbitrary stage of the prodn.

Polymers (A) include homo- and copolymers of conjugate diene cpds. and copolymers of the diene cpds. with mono-olefin unsatd. cpds. e.g. butadiene and isoprene polymers and styrene-isoprene, methyl methacrylate-isoprene and acrylonitrile-chloroprene-styrene copolymer. Polymer (B) is typically polyvinyl alcohol, carboxymethyl cellulose and/or maleic anhydride-modified liq. polybutadiene. Ethyleneic cpds. (C) include ethylene glycol di(meth)acrylate and oligobutadiene-urethane di(meth)acrylate. The solvent is typically water and 1-5C alcohols. The initiator is e.g. benzophenone.

USE/ADVANTAGE - Plate and printed prod. has sufficient rubber elasticity, combining aq. development and high resistance to aq. li

TITLE-TERMS: PRINT PLATE PRODUCE PHOTSENSITISER RESIN FLEXOGRAPHIC PRINT

POLYMER REMOVE SOLVENT ARBITRARY STAGE MIXTURE HYDROPHOBIC  
HYDROPHILIC POLYMER ETHYLENIC UNSATURATED COMPOUND  
PHOTOPOLYMERISE  
INITIATE SOLVENT

DERWENT-CLASS: A89 G06 G07 P84

CPI-CODES: A08-C01; A08-C07; A08-D01; A08-S02; A12-L02B1; A12-W07B;  
G05-A01;  
G06-D05; G06-F03B; G06-F03C; G06-F03D;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0994U; 1592U ; 1740U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0009 0036 0209 0218 0224 0231 0306 0307 0377 0502 0537  
1059 1060  
1061 1062 1093 1094 1095 1096 1097 1100 1101 1102 1103 1110 1169 1176  
1295 1994  
2007 2016 2020 2021 2022 2285 2299 2300 2318 2506 2507 2509 2511 2575

2607 2609

2628 2667 2805 2813 3013 3163 3198 3205 3250 3251

Multipunch Codes: 014 032 034 039 04- 040 055 056 062 063 072 074 076  
077 081

082 117 122 123 124 130 132 133 150 152 231 235 239 240 244 245 250

252 27& 28&

311 316 332 341 353 398 44& 473 475 48- 52& 524 53& 532 533 535 537

541 545 549

551 560 566 57- 58- 604 608 658 659 660 681 688 723 724

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1992-118485

Non-CPI Secondary Accession Numbers: N1992-202853